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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/637,156	08/08/2003	Richard Colonno	CT-2779 NP	2905
23914 7	590 05/25/2006		EXAMINER	
LOUIS J. WILLE			BOESEN, AGNIESZKA	
BRISTOL-MY	ERS SQUIBB COMPA	NY		
PATENT DEPARTMENT		ART UNIT	PAPER NUMBER	
P O BOX 4000			1648	
PRINCETON, NJ 08543-4000			DATE MAILED: 05/25/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/637,156	COLONNO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Agnieszka Boesen	1648				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on April 14, 2004. This action is FINAL. This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) ☐ Claim(s) 1-39 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-39 are subject to restriction and/or or	wn from consideration.					
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

Art Unit: 1648

DETAILED ACTION

Applicant's preliminary amendment filed April 14 is acknowledged.

Claims 1-39 are pending and are subject to the following restriction and species election.

Species Election

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Claim 12 is generic to the following disclosed patentably distinct species: The different formulas and R₁, R₂, and R₃ members recited in claims: 12-20. The species are independent or distinct because the different small molecules are distinct structurally and functionally.

Applicant is required to define all variables in formula I.

This application contains claims directed to the following patentably distinct species: interferon alpha 2B, pegylated interferon alpha, consensus interferon, interferon alpha 2A, and lymphoblastoid interferon tau. The species are independent or distinct because the different interferons have distinct structures and distinct functions.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is also required to elect one compound having anti-HCV activity:

- a) interferon
- b) interleukin 2
- c) interleukin 6
- d) interleukin 12,
- e) interfering RNA
- f) anti-sense RNA
- g) Imiqimod
- h) Ribavirin
- i) an inosine 5'-monophosphate dehydrogenase inhibitor
- j) amantadine, or
- k) rimantadine

If e) interfering RNA or f) anti-sense RNA is elected the Applicant is required to define all residues in the sequence.

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Applicant is also required to elect one target for the compound having anti-HCV activity:

l) HCV metalloprotease

m) HCV serine protease

n) HCV polymerase

o) HCV helicase

p) HCV NS4B protein

q) HCV entry

r) HCV assembly

s) HCV egress

t) HCV NS5A protein

u) IMPDH or

v) a nucleoside analog.

The inventions are distinct, each from the other because of the following reasons:

Inventions, the different combinations of the pharmaceutical agents are directed to related pharmaceutical compound for the treatment of an HCV infection. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the different combinations of the

pharmaceutical compound are not obvious variants of each other, have different modes of operation and have materially different design. For example, the combination of a defined small molecule compound and an interferon is not an obvious variant of a combination comprising a different small molecule and an anti-sense RNA. The mode of operation of an interferon with its cellular receptor is different from the mode of operation of the anti-sense RNA binding to its target RNA.

Because searching one invention is not coextensive with searching any other of the listed inventions and searching all inventions together would be burdensome, the restriction for examination purposes is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agnieszka Boesen whose telephone number is 571-272-8035. The examiner can normally be reached on 9:00 AM to 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AB

Agnieszka Boesen, Ph.D.

Examiner

may 19,2006

BRUCE R. CAMPELL, PH.D SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 1600**

Brune Campell